

**Summary of the  
Fourth Annual Meeting of the  
National Environmental Laboratory Accreditation Conference  
June 29-July 2, 1998**

## **INTRODUCTION**

The National Environmental Laboratory Accreditation Conference (NELAC) held its Fourth Annual Meeting, NELAC IV, June 29 - July 2, 1998 at the Omni Hotel in San Antonio, TX. The meeting was co-sponsored by the U.S. Environmental Protection Agency (EPA) and the Texas Natural Resource Conservation Commission (TNRCC). Approximately 320 individuals participated.

The meeting opened with a plenary session in which perspectives on NELAC and the National Environmental Laboratory Accreditation Program (NELAP) were reviewed. The keynote speaker was Mr. Timothy Fields, Jr., Acting Administrator of EPA's Office of Solid Waste and Emergency Response. Final committee sessions in preparation for voting were then held, followed by plenary sessions in which committee reports on their progress and revisions proposed to the NELAC standards were presented to participants. During the voting session, all revisions to the Standards were adopted by the Conference as proposed in committee sessions and floor amendments by more than a 90% majority. The Meeting concluded with overviews of the outcomes of the Meeting and a vision for the future of NELAC. The Environmental Laboratory Advisory Board (ELAB) also met in conjunction with NELAC IV.

Participants received conference materials at check-in which included a detailed schedule of meeting events and a copy of proposed changes to the NELAC Standards. The On-site Assessment Committee supplied a draft of the "NELAP On-site Assessment Assessor Training Manual" and a "Strategy for Checklist Development". Other materials were a list of pre-registered participants, a NELAC directory of the Board and committees, a summary of the rotation of NELAC members, a summary of voting procedures, a nomination form for NELAC committees or ELAB, a survey from the Membership and Outreach Committee, and a meeting evaluation form.

Registrants included 25 representatives of local or county government, 110 representatives of State and Territorial government, 50 representatives of EPA's Headquarters programs and Regional offices, and 30 representatives of other Federal government organizations. In the private sector, there were 55 representatives from environmental testing laboratories, 5 representatives from laboratory accreditation organizations, and 20 from industry. Other groups attending included consultants, academia, and environmental interest groups.

## **OPENING PLENARY SESSION**

The Fourth NELAC Annual Meeting was opened by Ms. Jeanne Mourrain, NELAC Director, welcoming participants. She announced that a camera man would be capturing video clips of selected committee meetings and would interview participants. This material will be assembled in a NELAC video, which will be available in near the future.

Ms. Mourrain introduced Ms. Carol Batterton, Chair of the NELAC Board of Directors, and thanked her for hosting the annual meeting for the second time. Other Board members present were Dr. Charles

Hartwig (Past Chair, retiring), Dr. Ken Jackson (Chair-elect), Ms. Betsy Dutrow (Executive Secretary), Dr. Charles Brokopp, Dr. Ronald Cada, Dr. Marcia Davies, Ms. Barbara Finazzo, Dr. Gary King, and Dr. James Pearson. Ms. Mourrain then introduced each of the Committee Chairs.

Ms. Batterton introduced Mr. John Baker, Commissioner of TNRCC and an appointed representative to NELAC, who welcomed participants to Texas. He commented on the environmental diversity of his State and noted the challenges as the next century approaches. Population is projected to double, and will be more sophisticated. He said that the current system of environmental regulation has been successful. Water and air quality are better than 20 years ago, but it must change to meet future needs. It must be more flexible, not more prescriptive. There is need for good analytical information as a basis for decision-making. Mr. Baker expressed his surprise that so little attention goes into assuring credible data, when so much money is spent on taking samples. In closing, Mr. Baker said that he anticipates many laboratories will want NELAP accreditation because it provides high quality assurance at a relatively low cost to become accredited.

In her remarks, Ms. Batterton reviewed some of the accomplishments of NELAC in the previous year. The NELAC Standards were fully adopted at NELAC III in July, 1997. Application forms for State accrediting authorities were available on the NELAC web site in October, 1997. The closing date for accepting applications was extended to January 31, 1998. Original expectations were that from five to six applications would be received and the first accrediting authorities would be approved by this meeting. The response was four times what was expected with 20 State programs (19 States) submitting applications. EPA regional offices, in coordination with volunteer State assessors, have begun conducting technical reviews of applications and have begun assessments of States' programs. The bad news is that the original schedule has slipped, but the good news is that it is because NELAP had so many more applications than expected.

Ms. Batterton recognized people who have made significant contributions this year to the implementation process. Ms. Barbara Finazzo of EPA Region 2 has been instrumental in coordinating the EPA Regional offices' role in the review and assessment process. After the NELAP program office was placed under the Quality Assurance Division this past year, Ms. Nancy Wentworth, as its Director, has provided much needed support to NELAP in the form of resources and personnel. Ms. Jeanne Mourrain, NELAC Director, was recognized as playing an essential role in developing and organizing the implementation process. Finally, the support of Mr. Dan Bivins and the Office of Air was recognized in their support of the development of the NELAC video. Ms. Batterton also noted that there are many other State, Federal, and private sector people who have also contributed to implementation efforts.

At last year's meeting, the Ad Hoc Transition Committee recommended that all accrediting authorities be approved simultaneously. Ms. Batterton said that with the large number of applications, it looks like this process will be completed and the first round of accrediting authorities will be approved in late 1998 or early 1999. The Ad Hoc Transition Committee also recommended that the first accrediting authorities accredit labs simultaneously. She said that this should occur by late 1999 or early 2000.

Ms. Batterton said that this week will conclude a year's activities for NELAC. The committees will present and explain changes that will be proposed for voting on Thursday at the plenary session. The committee process over the past year has allowed all participants the opportunity to express opinions. The proposed changes represent the committee's recommendation based on this input. She reminded participants that the majority of changes being proposed for voting were posted on the Internet at least a month ago. There may be minor adjustments made during the course of the week, but the process is not set up to accommodate any major new issues during this meeting.

Ms. Batterton noted that there are still, and always will be, issues to be resolved by the participants. The fact that NELAC exists is something of which we can all be proud. It is an unprecedented cooperative effort between the States, EPA, other federal agencies, and the private sector to solve a common problem.

Mr. Ted Coopwood, a previous Executive Secretary for NELAC, addressed tribal participation in NELAC. From 570 tribal governments, approximately 300-400 people attend the tribal operation council meetings. Among the issues discussed are air, water, and laboratories. Mr. Coopwood said that the tribes are really not familiar with NELAC and he suggested that a change in communication strategy may be in order. He suggested that the initial step is to identify interested tribes. Mr. Coopwood presented a proposed process for involving the tribes in NELAC, by gathering basic information, not working from assumptions.

Ms. Betsy Dutrow, present NELAC Executive Secretary, discussed conference participation and reviewed the voting process. She pointed out that there is an insert in the package of conference materials, which summarized the procedure for voting at NELAC IV.

### **Keynote Address**

Ms. Mourrain introduced the keynote speaker, Mr. Timothy Fields, Jr., Acting Assistant Administrator of EPA's Office of Solid Waste and Emergency Response (OSWER). Mr. Fields expressed his pleasure at working with an organization sharing so many common goals and interests, and in which there has been true collaboration in moving towards those goals. He said that OSWER and all of EPA strongly support NELAC, since there are many benefits to a national laboratory accreditation program, including: improving the quality of environmental monitoring data and environmental monitoring programs, reducing the burden on the laboratory community from multiple accreditation events, and bringing consistency to laboratory auditing approaches.

Mr. Fields said that OSWER hopes to be able to rely on NELAC's accreditation program as a measure of a laboratory's basic capability rather than develop a lab accreditation program specific to OSWER programs and regulations. Hence, OSWER plans to continue collaborating with NELAC to refine and improve the standards so that NELAC can be the accreditation program that all of EPA's programs can rely on.

Mr. Fields noted that OSWER urges NELAC to supplement the current standards with options to meet their need for a performance based approach in the next generation of NELAC standards. Once the appropriate level of flexibility is included in the NELAC standards, Mr. Fields said that he looks forward to developing a national policy directive that mandates waste programs to rely on properly accredited laboratories, including those accredited by NELAC.

In closing, Mr. Fields said that he believed much common ground has been achieved and that through continued collaboration, a national accreditation program can be achieved that serves a wide variety of environmental programs and represents a great stride in cost-efficiency and improved data quality for our environmental programs. He offered congratulations on the tremendous progress made towards a national accreditation program.

### **Closing Comments**

Dr. Ken Jackson, NELAC Chair-elect, told a story about his experience in the Committee on National Accreditation of Environmental Laboratories (CNAEL) and shared his thoughts on the future of NELAC. He said that CNAEL operated on three principles: cooperation, compromise, and that no existing accreditation program (State or Federal) would be expected to reduce its standards. Dr. Jackson said that it is the same for NELAC. If we operate under those three principles, then we can move forward

successfully. NELAC is in reasonably good shape, but the job is not completed. We must work toward the goal of meeting the rigor of State and EPA Regional programs and we must meet the needs of PBMS.

## **COMMITTEE WORKING SESSIONS**

For two days following the opening plenary session, concurrent working sessions were held for all 13 standing, administrative, and *ad hoc* committees. Progress made by each committee, as well as principal unresolved issues (and time frames for addressing them) were presented in the closing plenary sessions. In keeping with the goals established for national NELAC meetings, all working sessions were of an open-forum format in which all participants were encouraged to participate.

### **Program Policy & Structure — Chair: Ms. Pauline Bouchard**

NELAC Bylaws mandate a formal proposal one year in advance of voting for the creation or dissolution of standing committees. The committee made a formal proposal to create a Field Measurement and Sampling Committee, to be voted on at NELAC V. The committee also proposed the dissolution of the Program Policy & Structure Committee, to be voted on at NELAC V. However, further discussion will take place throughout the coming year to determine if there is a continuing need for the committee.

The committee's voting agenda contains minor editorial changes to the Constitution and Bylaws and to Chapter 1. One change is the deletion of the reference to the creation of a standing committee for Field Measurements and Sampling (since this violated the one-year rule). The committee also defined the word "day" to mean "calendar day", since "working days" have multiple definitions.

Future plans of the committee include refinement of the glossary. The Program Policy and Structure Committee needs input from all the committees to reflect use of consistent definitions. The committee also intends to prepare a Model Scope of Accreditation, form a subcommittee to develop a proposal to deal with State agriculture laboratories, and work with the Quality Systems Committee to address the "small lab" issues.

### **Proficiency Testing — Chair: Ms. Anne Rhyne**

The committee has added Interim Standards into Section 2.0. This text incorporates the NIST program and recognizes that there will be accredited providers. The interim standards ensure that primary accrediting authorities accept for purposes of NELAC, all NIST/NVLAP accreditations, and continue status quo for all other programs and compounds for which NIST/NVLAP accreditation is not currently available. Another addition was a reference to the USEPA's "National Standards" for water proficiency testing studies. The committee will continue to coordinate with NIST to ensure compatibility between standards, and they intend to request that NIST's scope of accreditation be expanded to include additional analytes. One unresolved issue is the differences between B.1.2 and NIST standards regarding the acceptable range of a provider's QC check. The committee intends to continue development of Appendices F, G, and H and hope to have first drafts ready by the next interim meeting.

### **On-site Assessment — Chair: Mr. Wayne Davis**

There has been overall acceptance of the revised draft Laboratory Onsite Assessor Training Manual. The committee asks for written comments on the manual by 9/30/98; they plan to finalize the manual based on those comments by 12/1/98. The committee will continue to develop laboratory assessment checklists and develop scope and content of the technical training courses for the laboratory assessors. It is unresolved whether to include "regulatory issues" in the basic laboratory assessor training. The committee has reached a general consensus regarding transition to quality systems/PBMS based assessments. However the committee awaits the consensus EPA position and timeline regarding PBMS.

**Accreditation Process — Chair: Ms. Margaret Prevost**

Highlights of the committee discussion were the “Grandfather Clause” and mobile laboratories. The committee clarified that the technical director could be “grandfathered in” and that all technical expertise does not have to be in one person. The committee also clarified when a laboratory is truly a separate site, and when it is simply an extension of a parent laboratory. The committee will seek input from all stakeholders on the standard and they intend to harmonize Chapter 4 with other standards. The committee also intends to further clarify the proper use of the NELAC insignia and logo.

**Quality Systems — Chair: Ms. Sylvia Labie**

Ms. Labie announced that the new committee Chair will be Mr. Joe Slayton. She will no longer be Chair of the committee because she is joining the NELAC Board of Directors. She said that the goals of the committee were to anticipate implementation (ensure auditability), address EPA concerns (flexibility), and ensure consistency in the manner in which laboratories are accredited and audited. The committee refined and clarified the language of the standard (managerial review, document training, sample receipt documents, and removed “where applicable”). The committee also has made a commitment to ensure consistency with PBMS. The committee intends to solicit suggestions for calibration and method detection limit, and resolve issues regarding spiking and multi-component methods. By January of 1999 the committee intends to propose revisions for calibration, method detection limit, and air. The committee also intends to address interpretation problems regarding medium vs. matrix and method blanks.

**Accrediting Authority — Chair: Mr. John Anderson**

The substantive issue for the committee was consistency and uniformity of NELAP assessments of accrediting authority applications for NELAP recognition. The proposed changes for vote are as printed in the bound copy received by each participant at check-in, except for Section 6.9.1. The section does not change except for the addition of 6.9.1(d) regarding assessment team training. Also, the committee recommended that the term “contractors” be used in place of “subcontractors”. Future plans of the committee are to move Section 6.8 to Chapter 4 (Section 4.6.2), improve definitions (audit vs. assessment), refine Section 6.9 regarding assessment team member qualifications, and discuss applicability of ISO Guide 61 to NELAP.

**Implementation — Chair: Dr. Carl Kircher**

The committee presented an expanded model for administrative rule. Both the long and short version of the model are available on the NELAC Web Site. Comments are being received on the expanded version and will be addressed by the committee. The committee will review changes to Chapter 2 and 4 and decide on revisions to the model text by 10/1/98. They also plan to develop a qualitative cost/benefit analysis and assist in addressing the Indian Tribal Nations Issue. The committee presented EPA’s regulatory agenda which included issues of PBMS, EPA 1664, and Test methods for drinking water testing. The committee will report the EPA regulatory agenda for October 1998 by 1/99. The committee also discovered potential changes to ISO Guide 25 and pointed out that the ISO 17025 Standard will be issued soon. The committee will assess impacts of ISO 25 on Chapter 5. Finally, the committee also changed the committee’s name to the “Regulatory Coordination Committee.”

**Conference Management — Chair: Ms. Marion Kelly Thompson**

Ms. Nancy Wentworth presented the results of the committee meetings in the absence of its chair, Ms. Thompson due to a personal injury. The committee will work with the incoming Chair, Dr. Kenneth Jackson on needs for NELAC V which is scheduled to be held in Saratoga Springs, NY next June. The committee will also work with incoming Chair-elect (Dr. James Pearson) on needs for NELAC VI which will be held in Virginia. The committee plans to continue its search for co-sponsors for future meetings.

For this, the committee hopes to develop criteria for co-sponsors by 8/31/98. Lastly, the committee will set up meetings with AIHA, AWWA, and other interested parties for future meetings by 7/31/98.

#### **Membership and Outreach — Chair: Dr. Irene Ronning**

This committee's charge is to spread the word of NELAC. The committee hopes to deal with some unresolved issues including the revision of the Membership and Outreach Committee's duties in Bylaws Article VI, Section 2.B.3 and Chapter 1 (1.6.5.2.3) by deleting activities the committee does not perform, for example, the maintenance of a representative roster and checking committee member credentials. The committee will submit recommended language to the Program, Policy and Structure Committee on the Bylaws, and Chapter 1.

The Membership and Outreach Committee and the Implementation Committee met to discuss the Board's recommendation that the committees merge. It was agreed that the two committees should not merge at the present time, but will work more closely in the future.

The committee announced a new, more user-friendly NELAC Web Page; the URL is "<http://www.epa.gov/ttn/nelac/>". The committee continues to work on the Web Site and should be contacted with any suggestions. Plans for Web Site additions include: presentations/speaker notes which are easily downloaded, updated NELAC flyers (also for hard copy distribution), and a FAQ section (created by screening questions received by NELAC committees).

Other future plans of the committee are to continue soliciting names of individuals interested in serving on NELAC committees and develop a list of potential nominees for use by the committee chairs; continue collecting names of journals and Web sites in which to place NELAC announcements; and identify potential speakers for each State and create a database of this information.

#### **Nominating — Chair: Dr. Charles Hartwig**

Dr Hartwig moved that the nominees to the NELAC Board of Directors listed below be accepted by acclamation. All three nominees were accepted. The proposed members-at-large are Ms. Sylvia Labie from the State of Florida, and Ms. Jacqueline Sample of the Department of Defense. The proposed Chair-elect is Dr. James Pearson from the Commonwealth of Virginia.

#### **Transition — Chair: Dr. Charles Brokopp**

Unresolved issues including clarifying the effective date of NELAC Standards. The committee also was encouraged to collect information on laboratories' intent to request NELAP accreditation. The committee is creating a time line for accrediting authority approvals which should be completed by 11/1/98. The time line to notify laboratories when accrediting authorities are approved is now set for 12/1/98. The committee addressed most of the recommendations from the interim meeting by sending them to the Accrediting Authority Committee which deals with Chapter 6. Most of these recommendations have already been incorporated.

#### **Field Measurements and Sampling — Chair: Dr. Barton Simmons**

A straw vote was taken on making this committee a standing committee: the majority of participants in this session would approve this as a voting issue at NELAC IV. Also, the name of the committee may be changed to the "Field Activities Committee," which would involve more organizations in standards development.

There was discussion of separating field measurements from sampling. The committee plans to submit a paper on sampling standards to the NELAC Board of Directors. They also want the Board to revise the

charge on how to proceed in field measurements and sampling. The vote to make this committee a standing committee is planned for NELAC V.

#### **National Database — Chair: Mr. Matthew Caruso**

The committee requested input from the NELAC participants: frequently asked questions and functionality sought. The committee also provided information on the ongoing design work with the EPA software contractor. The committee is dealing with some unresolved issues which include: mechanisms and frequency of national database updates, how to get data from accrediting authorities into the database, whether the database should include noncommercial NELAC laboratories, and which laboratories should be included.

The committee has already designed an interim database for accrediting authorities. The prototype of a national database for FAQs and functions identified to date has been completed. The future plans of this committee are to post a questionnaire on the NELAC Web Site to solicit FAQs and functionality desired but not yet identified by 9/15/98. Until this happens participants can e-mail Mr. Caruso at caruso@wadsworth.com.

### **CLOSING PLENARY SESSION**

Ms. Carol Batterton, chair of the NELAC Board of Directors, convened the closing plenary sessions. Each committee Chair presented a brief activity report for the committee (summarized above). Changes to the NELAC Standards were presented in the first segment. Administrative and ad hoc committee Chairs summarized their activities in the second segment. These committee summary reports included the highlights of discussions in the committee sessions, an itemization of unresolved issues, future plans, and timetables for completion of those plans.

Ms. Wentworth presented awards to NELAC Committee and Board members. The Board selected one committee for special recognition for their efforts over the past year. This year the Proficiency Testing committee received the award which was accepted by Ms. Anne Rhyne, Chair of the Proficiency Testing Committee. Ms. Wentworth also acknowledged each of the committee members and presented an EPA “on-the-spot” award to Ms. Elizabeth Dutrow for her work in facilitating recent meetings of the Proficiency Testing Committee. Dr. Charles Hartwig, retiring NELAC Past Chair, was recognized for his pioneering efforts in developing the vision for NELAC. Mr. Ivan DeLoatch, of EPA’s Office of the Administrator, was presented a plaque in appreciation of his support and assistance to NELAC.

### **VOTING SESSION**

Ms. Batterton opened the voting session with a review of the rules for NELAC participants. Mr. Jerry Parr presented the ELAB recommendation that members vote for the NELAC Standards in their entirety. Voting issues are summarized below: the detailed voting record follows as an attachment.

#### **Constitution and Bylaws and Chapter One**

Ms. Pauline Bouchard, Chair of the Program Policy and Structure Committee, introduced the voting issue for the Constitution and Bylaws, and Chapter 1. Ms. Bouchard moved the adoption of all the changes proposed for the Constitution and Bylaws, and Chapter 1 of the NELAC Standards. She stressed the proposed change of defining “day” as “calendar day.” There was no discussion on this motion.

**Vote 1:** changes to the Constitution and Bylaws and Chapter 1 proposed by the committee. The vote was passed.

## **Chapter 2**

Ms. Anne Rhyne, Chair of the Proficiency Testing Committee, presented the voting issues for Chapter 2. Ms. Rhyne noted that there was a list of proposed revisions which were not included in the June 30<sup>th</sup> copy of the NELAC Standards. Section A.9.2(b) and (c) were inadvertently deleted. She also requested that Appendix E be approved in its entirety.

- Mr. Mike Sodano from the State of Maine moved that the Committee consider amending the language in Appendix E.3.1 to read, "Passing shall be considered as nine out of ten samples having acceptable results and no false positives." The committee had proposed to change the wording to be ten out of ten samples. The proposed amendment was approved by over a 2/3 majority.
- Another member proposed voting separately on each Appendix of Chapter 2. Since less than ten Voting Members concurred the issue was dropped.
- Another member proposed to change the wording in Section 2.7.5 to read, "If a laboratory fails a second study out of the most recent three, the accrediting authority shall take action within 60 calendar days to determine the laboratory's accreditation status pursuant to Chapter 4.4.2." This language was agreed upon by the committee.

**Vote 2:** entire Chapter 2 and Appendices A through E, including the amendment and other changes. The vote was passed.

## **Chapter 3**

Mr. R. Wayne Davis, chair of the On-site Assessment committee introduced the chapter on Onsite Assessment. All sections of Chapter 3 were included in the voting issue including changes in the registration packet and June 30<sup>th</sup> Standard and additional changes in Section 3.7.4 (Release of Report). The phrase "and information related to national security," was added so this section would be consistent with Section 3.4.6.

**Vote 3:** all changes proposed to Chapter 3. The vote was passed.

## **Chapter 4**

Ms. Margaret Prevost introduced the voting items for Chapter 4, Accreditation Process. These changes were itemized in the registration packet and from committee sessions at this meeting.

**Vote 4:** changes proposed to Sections 4.1.1 and 4.1.1.1. The vote was passed.

**Vote 5:** changes on "Mobile Laboratories" (Section 4.1.2.a), "Use of NELAC Accreditation" (Section 4.6.2) and "Clarifications" in the chapter. The vote was passed.

## **Chapter 5**

Ms. Sylvia Labie introduced the voting agenda for Chapter 5, Quality Systems. Changes included those itemized in the registration packet and developed from committee sessions at this meeting.

**Vote 6:** all the proposed changes to Chapter 5, Quality Systems. The vote was passed.

## **Chapter 6**

Mr. John Anderson introduced Chapter 6, Accrediting Authority Committee's voting issues. These included proposed changes to the chapter and minor editorial changes in Section 6.3.3.1.2(b) regarding the



use of contractors versus subcontractors. During discussion, the committee accepted the suggested following wording, which was suggested to clarify section 6.9.1:

“The NELAP assessment team shall:

- 1) have at least one member of the NELAP assessment team who meets the education, experience, and training requirements for the laboratory assessors specified in the NELAC standards Chapter three, On-Site Assessment; and
- 2) have another member with experience that includes at least one of the follow:...”

**Vote 7:** proposed changes, excepting section 6.9.1. The vote was passed.

**Vote 8:** proposed changes to Section 6.9.1 with a new section (d) on assessment team training added.

This concluded the voting session. Ms. Batterton and Ms. Mourrain thanked everyone for their active participation in this meeting and TNRCC and RTI staff for their help.

Ms. Batterton reminded participants that the Fourth NELAC Interim Meeting is scheduled for January 11-14, 1999 in Bethesda, MD. She then introduced Dr. Kenneth Jackson, the incoming Chair. Dr. Jackson spoke about next year’s annual meeting. Ms. Batterton concluded the meeting with an expression of appreciation to Ms. Ramona Trovato for her sustained support of NELAC. She then declared the meeting adjourned.

# NELAC IV Voting Summary

July 2, 1998

Vote No. (b)	ISSUE	REPRESENTATIVES				DELEGATES			
		% Yea	Yea	Nay	Abst*	% Yea	Yea	Nay	Abst*
1	All proposed changes to: a) Constitution & Bylaws, and b) Chapter One	98%	57	1	0	100%	74	0	4
2	Chapter 2: all proposed changes, including accepted amendment and rewording	93%	52	4	0	93%	70	5	2
3	Chapter 3: all proposed changes	98%	56	1	1	97%	74	2	1
4	Chapter 4: changes proposed in section 4.1.1 (grandfather clause) and 4.1.1.1 (technical director definition & qualifications)	89%	47	6	1	90%	63	7	2
5	Chapter 4: changes proposed in 4.1.2a (mobile laboratories), 4.6.2 (use of NELAC accreditation), and clarifications	95%	53	3	0	100%	74	0	0
6	Chapter 5: all proposed changes	98%	53	1	0	97%	68	2	3
7	Chapter 6: all proposed changes, excepting 6.9.1	98%	54	1	0	100%	71	0	3
8	Chapter 6: section 6.9.1 (NELAP Assessment Team)	98%	54	1	0	100%	70	0	4

\* Abstentions recorded to assure that a quorum exists for each vote. Calculation of “% Yea” only includes votes cast as “Yea” or “Nay”.

# NELAC IV Representatives<sup>a</sup> Voting Record

July 2, 1998

Vote No. (b)	1	2	3	4	5	6	7	8
AL								
AK	y	y	y		y	y	y	y
AZ	n	n	n	n	n	n	n	n
AR								
AS (c)								
CA	y	y	y	y	y	y	y	y
CO	y	y	y	y	y	y	y	y
CT	y	y						
DE	y	y	y	y	y	y	y	y
FL								
GA	y	y	y	y	y	y	y	y
GU (c)	y	y	y	y	y	y	y	y
HI								
ID								
IL	y	y	y	y	y	y	y	y
IN	y	y	y	n	y	y	y	y
IA	y	y	y	y	y	y	y	y
KS	y	y	y		y	y	y	y
KY	y	y	y	y	y	y	y	y
LA	y	y	y	y	y	y	y	y
ME	y	y	y	y	y	y	y	y
MD		y	y	y	y	y	y	y
MA	y	y	y		y	y	y	y
MI	y	y	y	y	y	y	y	y
MN	y	y	y	y	y	y	y	y
MS								
MO	y	y	y	n	y	y	y	y
MT								
NE								
NV	y	y	y	y	y	y	y	y
NH	y	y	y	y	n	y	y	y
NJ	y		y	y	n	y	y	y
NM	y	n	y	y	y	y	y	y
NY	y	y	y	y	y	y	y	y
NC	y	y	y	y	y	y	y	y
ND								
MP (c)	y	y	y	y	y	y	y	y
OH	y	y	y	y	y	y	y	y
OK	y	y	y	y	y	y	y	y
OR	y	y	y	y	y	y	y	y
PA	y	y	y	y	y	y	y	y
PR (c)	y	y	y	y	y	y	y	y
RI								
SC	y	y	y	y	y	y	y	y
SD								
TN								
TX	y	y	y	y	y	y	y	y
UT	y	y	y	y	y	y	y	y
VT	y	y	y	y	y	y	y	y
VA	y	y	y	y	y	y	y	y
VI (c)								
WA	y	y	y	y	y	y	y	y
wDC								
WV								
WI	y	y	y	y	y	y	y	y
WY								

<sup>a</sup> See list of Representatives and Alternates, following

<sup>b</sup> See Voting Summary, page 1

<sup>c</sup> U.S. Territories: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, Virgin Islands

# NELAC IV Representatives<sup>a</sup> Voting Record

July 2, 1998

Vote No. (b)	1	2	3	4	5	6	7	8
DOA	y	y	y	y				
DOC	y	y	y	y	y			
DOD	y	y	y	y	y	y	y	y
DOE	y	y	y	y	y	y	y	y
DOI								
DHHS								
NRC								
R1	y	y	y		y	y	y	y
R2	y	y	y	y	y	y	y	y
R3	y	y	y	n	y	y	y	y
R4	y	y	y	n	y	y	y	y
R5	y	n	y	n	y	y	y	y
R6	y	n		y	y	y	y	y
R7	y	y	y	y	y	y	y	y
R8	y	y	y					
R9	y	y	y	y	y	y	y	y
R10	y	y	y	y	y	y	y	y
OSWER	y		y	y	y	y	y	y
OAR	y	y	y	y	y	y	y	y
ORD	y	y	y	y	y	y	y	y
OW	y	y	y	y	y		y	y
OPPTS								
OECA	y		y	y	y	y	y	y
OROSLR	y	y	y	y	y	y	y	y

<sup>a</sup> See list of Representatives and Alternates, following

<sup>b</sup> See Voting Summary, page 1

<sup>c</sup> U.S. Territories: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, Virgin Islands

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